IBM Personal Computers

For the
office,
home,
classroom

IBM

Meet the family

The family of IBM Personal Computers includes three versatile, easily expandable personal computer systems: the IBM Personal Computer, the IBM Personal Computer XT, and the IBM PC*jr*. All three of these systems offer a number of advanced hardware features at very reasonable prices . . . and all three provide a wide range of capabilities to meet your professional, educational, entertainment and personal needs.

The IBM Personal Computer is a cost-effective, versatile and easy-to-use computer whose advanced hardware features have set quality standards since its introduction. A wide range of software is available for the IBM PC, as are expansion features that offer you added performance capabilities.

The IBM Personal Computer XT offers extensive storage capacity; fast, convenient access to large amounts of information; and expansion capabilities that help you keep pace as your information management needs grow. It is a high-performance system that can meet many of your more demanding computing requirements.

The IBM PC*jr* is a very compact, lightweight (about 12 pounds) personal computer that offers a great deal of computing power and versatility at a most affordable price. Its power comes from the same advanced 8088 microprocessor that is used in the IBM Personal Computer and the IBM Personal Computer XT. Its versatility comes from its compatibility with a range of programs available on cartridges and diskettes.

IBM System Units at a glance

The IBM Personal Computer

The versatile IBM Personal Computer contains advanced hardware features that include 64KB of user memory, expandable to 640KB; one or two 180KB or 360KB capacity* diskette drives; and five system expansion slots that allow you to add an array of options.

- **User Memory (RAM)**
  64KB standard, expandable to 640KB
- **Permanent Memory (ROM)**
  40KB; includes BASIC Interpreter, automatic Power-on Self-test, and more
- **Auxiliary Storage**
  One or two 180KB or 360KB capacity diskette drives may be installed in the System Unit; with an optional IBM Expansion Unit for the IBM Personal Computer, up to two 10MB fixed disk drives may also be added; total system capacity is 20,720KB of storage
- **Microprocessor**
  High-speed, 16-bit (8088)
- **Expansion Slots†**
  Five; eight more slots can be added with an IBM Expansion Unit; total available is 13
- **Adapters**
  None included; optional adapters may be added
- **Operating Systems**
  IBM Disk Operating System 2.10, UCSD p-System,** and CP/M-86**

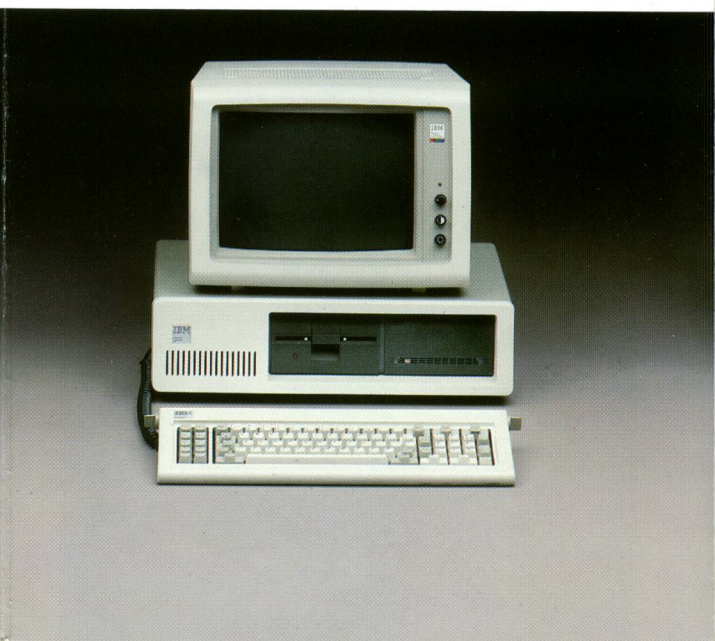
The IBM Personal Computer XT

The IBM PC XT was designed to handle a large amount of information. The System Unit offers you the information-handling capacity of a 10MB fixed disk drive, as well as a double-sided, 360KB capacity* diskette drive and 128KB of user memory that can be expanded to 640KB. The IBM PC XT's capabilities also can be expanded by adding options to the System Unit's eight system expansion slots.

- **User Memory (RAM)**
  128KB standard, expandable to 640KB
- **Permanent Memory (ROM)**
  40KB; includes BASIC Interpreter, automatic Power-on Self-test, and more
- **Auxiliary Storage**
  One 10MB fixed disk drive and one double-sided, 360KB capacity diskette drive standard; with an optional IBM Expansion Unit for the IBM Personal Computer XT, one additional 10MB fixed disk drive and one 180KB or 360KB capacity diskette drive may be added; total system capacity is 20,720KB of storage
- **Microprocessor**
  High-speed, 16-bit (8088)
- **Expansion Slots††**
  Eight; eight more slots can be added with an IBM Expansion Unit; total available is 16
- **Adapters**
  One Asynchronous Communications Adapter, one Diskette Drive Adapter, and one Fixed Disk Drive Adapter are standard
- **Operating System**
  IBM Disk Operating System 2.10

IBM Personal Computer

IBM Personal Computer XT



The IBM PC*jr*

The compact, easy-to-use IBM PC*jr* is composed of the System Unit and keyboard. The System Unit contains 64KB of user memory, expandable to 128KB; two software cartridge slots; an optional 360KB capacity* slimline diskette drive; and built-in connectors for attaching various options to the system. The programmable, color-coded keyboard is cordless and uses infrared signals to communicate with the System Unit, similar to the way a hand-held remote control operates a TV set.

- **User Memory (RAM)**
  64KB standard, expandable to 128KB
- **Permanent Memory (ROM)**
  64KB; includes BASIC Interpreter, BIOS, automatic Power-on Self-test, Keyboard Adventure program, and user diagnostics
- **Auxiliary Storage**
  One optional double-sided, 360KB capacity slimline diskette drive; total system capacity is 360KB of storage
- **Microprocessor**
  High-speed, 16-bit (8088)
- **Connectors**
  18, supporting peripherals such as a display, printer, joysticks, light pen, modem and cassette player; also, an optional IBM Parallel Printer Attachment connects to the side of the System Unit
- **Adapters**
  None included; optional adapter cables are used to connect peripheral devices to their corresponding connectors on the System Unit
- **Operating System**
  IBM Disk Operating System 2.10

*IBM PC*jr

Major system options

IBM Personal Computer Keyboard. You can communicate with the IBM PC and the IBM PC XT by using a slim, multifunctional keyboard that features:

- An 83-key, typewriter-like format
- A calculator-like numeric keypad and 10 special function keys to save time
- A special "print screen" key to print out information that appears on your display screen
- A six-foot coiled keyboard cable
- Angle of keyboard can be adjusted for added comfort

IBM Color Display. The IBM Color Display◆ offers you the capability to display both text and vivid color graphics while using any personal computer from IBM. In the text mode, the IBM Color Display enables you to view up to 25 lines of text at one time—with up to 80 characters per line—on its 12½-inch screen (diagonal measurement). To support the IBM Color Display, the IBM PC and IBM PC XT require the IBM Color/Graphics Monitor Adapter; the IBM PC*jr* requires the IBM PC*jr* Adapter Cable for the IBM Color Display.

IBM Monochrome Display. The 11½-inch (diagonal measurement), high-resolution IBM Monochrome Display can be used to view up to 25 lines of information at once, with up to 80 characters per line. For reading comfort, it features green phosphor characters and an anti-glare screen, plus brightness and contrast controls. To use the IBM Monochrome Display with an IBM PC or IBM PC XT, you will need the IBM Monochrome Display and Printer Adapter. The IBM Monochrome Display is not compatible with the IBM PC*jr*.

IBM Expansion Units. An IBM Expansion Unit◆ can increase the storage capacity and system expansion capabilities of the IBM PC and the IBM PC XT. Each Expansion Unit comes with a 10MB fixed disk drive and eight expansion slots.

*The IBM Disk Operating System 2.10 increases the formatted capacity of 160KB and 320KB diskettes to 180KB and 360KB, respectively.

**UCSD and UCSD p-System are trademarks of the Regents of the University of California. CP/M-86 is a trademark of Digital Research, Incorporated.

†When an Expansion Unit is added to an IBM Personal Computer, two expansion slots in the IBM PC System Unit are occupied by the attachment cards used to connect the System Unit to the Expansion Unit.

††Three expansion slots are occupied by adapters that come with the IBM PC XT System Unit. In addition, when an Expansion Unit is added, two slots are occupied by the attachment cards used to connect the IBM PC XT System Unit to the Expansion Unit.

◆Additional electrical outlets are required when using an IBM Color Display and/or IBM Expansion Unit.

Printer options for IBM Personal Computers

IBM Personal Computer Color Printer. The IBM Personal Computer Color Printer,* offers high-quality color graphics and text in up to eight colors. It features four bidirectional print speeds, from 200 characters per second (CPS) for drafts to 35 CPS for near-letter-quality printing. The printer also includes an array of user-programmable features, including spacing, margins, tabs, underlining and a number of different typefaces. Tractor and manual single-sheet feeds are standard. Three easily installable ribbon cartridges are available: eight-color, four-color and black-only.

IBM Graphics Printer. The IBM Graphics Printer* is a versatile, quality matrix printer that enables you to print both graphic images and a range of text characters in five languages. Operating at speeds of up to 80 characters per second, this bidirectional printer features 18 type styles and four modes of all-points-addressable graphics.

IBM PC Compact Printer. The IBM PC Compact Printer,* a lightweight thermal printer, is specifically designed for use with the IBM PC*jr*. It uses 8½-inch-wide, continuous-roll, single-sheet or fanfold heat-sensitive paper, printing left to right at 50 characters per second, in a choice of three type styles.

*Additional electrical outlets are required when using an IBM printer.

The IBM Personal Computer can help you increase productivity and enhance your creativity.

Other ways to expand your system

By using the system expansion slots on your IBM PC or IBM PC XT, or the built-in connectors on your IBM PC*jr*, you can easily add a variety of options. With the appropriate adapters, you can add:

- A modem, to exchange information with other computers and access information and service networks such as Dow Jones News/Retrieval* and THE SOURCE* (IBM also offers an optional internal modem for the IBM PC*jr*)
- A television or video monitor,** as a display option
- Joysticks and game paddles,** for playing exciting entertainment programs

Carefully selected programs

Choose from a wide range of software packages that have been carefully selected by IBM to meet a variety of business, educational, professional, entertainment and personal needs. In addition, you can select from various operating systems and language compilers to write your own computer programs.†

Many IBM Personal Computer programs will run on all three IBM Personal Computers. A program is compatible with your system if you use the appropriate program version and operating system, and if your system has the necessary memory and display to support the program. This compatibility feature could save you money when using different IBM Personal Computers.

The number of IBM Personal Computer software packages is rapidly growing, to provide you with even more ways to use your personal computer from IBM to help you become more productive and more creative.

*Dow Jones is a trademark and Dow Jones News/Retrieval is a registered trademark of Dow Jones & Company, Inc. THE SOURCE is a service mark of Source Telecomputing Corporation, a subsidiary of The Reader's Digest Association, Incorporated.

**Televisions, video monitors, joysticks and game paddles are not part of the IBM Personal Computer offering and must be purchased separately.

†The IBM Disk Operating System (DOS) 2.10 is the only operating system that can be used with the IBM PC*jr*.

IBM's commitment

The IBM Personal Computer, IBM Personal Computer XT, and IBM PC*jr* have more than 30 years of IBM computer experience behind them. Particular attention has been paid to making it easy for you to use these fine products and enjoy all the benefits they offer.

You don't have to be a computer expert to learn how to use your personal computer from IBM. With just a little time and practice, you can begin to appreciate its versatile capabilities. A special set of easy-to-understand instructional materials is provided by IBM to take the mystery out of computing and to familiarize you with your personal computer from IBM.

A lasting commitment. IBM's commitment to you does not end when you leave the store. IBM and its nationwide network of Authorized IBM Personal Computer Dealers provide the same high standards of warranty service that are associated with all IBM products. In addition, post-warranty service is offered by IBM and its participating authorized dealers. Ask your dealer about the various service options.

Take the next step. Find out how the IBM PC, IBM PC XT, and IBM PC*jr* can help increase personal productivity and creativity in the office... the home... the classroom... the lab... or wherever it makes sense for you. Ask your Authorized IBM Personal Computer Dealer for more details. And while you're at it, have your dealer provide you with a hands-on demonstration—so you can see for yourself how you and a personal computer from IBM can make a creative and productive team.

The IBM Personal Computer XT offers you extensive storage, fast access to programs and data, and added convenience.

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